

AMENDMENTS TO SPECIFICATION

Please amend paragraphs 0001-0004 and 0008 as shown below:

[0001] The present application is related to the following applications, which are directed to methods for constructing a one- or two-dimensional (1-D or 2-D) conjugated molecular network through acetylene-acetylene coupling (copending application Serial No. ~~[[]]~~ 10/465,409, filed on ~~[[]]~~ June 18, 2003 ~~[PD-200309395-1]~~), and how to introduce stacked planes of rotor-stator networks and isomeric rotor-stator pre-assemblies with metal complex or macrocycle spacers bridging spacers in adjacent planes, etc. (copending application Serial No. ~~[[]]~~ 10/465,378, filed on ~~[[]]~~ June 18, 2003, now U.S. Patent 6,795,230, issued September 21, 2004 ~~[PD-200309394-1]~~). The present teachings introduce an alternative approach for the self-assembly and sequential deposition of multiple layers of molecular materials. In particular, the present teachings are another approach to bringing the rotor-stator type of digital dye from concept to practical application.

[0002] The present application is also related to application Serial No. 10/187,720, entitled "Electric Field Actuated Chromogenic Materials Based on Molecules with a Rotating Middle Segment for Applications in Photonic Switching", and filed on July 1, 2002, in the names of Xiao-An Zhang et al, now U.S. Patent 6,701,035, issued March 2, 2004; application Serial No. 09/898,799, entitled "Bistable Molecular Mechanical Devices Activated by an Electric Field for Electronic Ink and Other Visual Display Applications", and filed on July 3, 2001, in the names of Xiao-An Zhang et al, now U.S. Patent 6,947,205, issued September 20, 2005; and to U.S. Patent No. 6,556,470, entitled "Field Addressable Rewritable Media", issued April 29, 2003, to Kent D. Vincent et al, all assigned to the same assignee as the present application, The class of molecules disclosed in the foregoing references has been found to be useful in the optical switching devices of the present application.

[0003] The present application is further related to the following applications and patents: ~~Serial No. 10/187,720, entitled "Electric Field Actuated Chromogenic Materials~~

~~Based on Molecules with a Rotating Middle Segment for Applications in Photonic Switching~~, and filed on July 1, 2002, in the names of Xiao-An Zhang et al; Serial No. ~~09/898,799~~, entitled ~~"Bistable Molecular Mechanical Devices Activated by an Electric Field for Electronic Ink and Other Visual Display Applications"~~, and filed on July 3, 2001, in the names of Xiao-An Zhang et al; Serial No. 09/846,135, entitled "Bistable Molecular Mechanical Devices with a Middle Rotating Segment Activated by an Electric Field for Electronic Switching, Gating, and Memory Applications", and filed on April 30, 2001, in the names of Xiao-An Zhang et al, now U.S. Patent 6,674,932, issued January 6, 2004; Serial No. 09/932,186, entitled "Devices Activated by an Electric Field for Electronic Ink and Other Visual Display Applications", and filed on August 17, 2001, in the names of Xiao-An Zhang et al; Serial No. 09/823,195, entitled "Bistable Molecular Mechanical Devices with a Band Gap Change Activated by an Electric Field for Electronic Switching, Gating, and Memory Applications", and filed on March 29, 2001 in the names of Xiao-An Zhang et al (US Publication 2002-0176276 November 28, 2002); Serial No. 09/919,394, entitled "Field Addressable Rewritable Media", and filed on July 31, 2001, in the names of Kent D. Vincent et al, now U.S. Patent 6,556,470, issued April 29, 2003; and Serial No. 09/844,862, entitled "Molecular Mechanical Devices with a Band Gap Change Activated by an Electric Field for Optical Switching Applications", and filed on April 27, 2001, in the names of Xiao-An Zhang et al, now U.S. Patent 6,763,158, issued July 13, 2004, all assigned to the same assignee as the present application. The contents of the foregoing patent applications are incorporated herein by reference.

[0004] The present application is still further related to the following applications: Serial No. 10/016,560, entitled "Hard Copy System Including Rewritable Media", and filed on October 31, 2001, in the names of Kent D. Vincent et al, now U.S. Patent 6,937,357, issued August 30, 2005; Serial No. ~~09/978,394~~ 09/978,384, entitled "Portable Electronic Reading Apparatus", and filed on October 16, 2001, in the names of Kent D. Vincent et al, now U.S. Patent 6,940,497, issued September 6, 2005; Serial No. 10/051,669, entitled "Scanning, Copying and Printing with Rewritable Media", and filed on January 17, 2002, in the names of Kent D. Vincent et al, now U.S. Patent 6,806,453, issued October 19, 2004; Serial No. 09/981,166, entitled "High Resolution Display", and

filed on October 16, 2001, in the names of Kent D. Vincent et al (US Publication 2003-0071780, April 17, 2003); Serial No. 10/021,446, entitled "Laser Printing with Rewritable Media", and filed on October 30, 2001, in the names of Kent D. Vincent et al, now U.S. Patent 6,670,981 issued December 30, 2003; and Serial No. 10/171,060, entitled "Color Display with Molecular Light Valve", and filed on June 13, 2002, in the names of Kent D. Vincent et al, now U.S. Patent 6,853,478, issued February 8, 2005, all assigned to the same assignee as the present application. The contents of the foregoing patent applications are incorporated herein by reference.

[0008] The concept of electronic devices based on active molecular components was proposed almost thirty years ago. Since then, hundreds of publications and numerous proposals have appeared. So far, one of the most promising architectures that will lead to highly effective and durable molecular devices is the rotor-stator configuration disclosed and claimed in above-referenced Serial No. 10/187,720 (U.S. Patent 6,701,035); Serial No. 09/898,799 (U.S. Patent 6,947,205); and U.S. Patent 6,556,470.